DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES Office of Structural Materials

Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 69.28

WELDING INSPECTION REPORT

Resident Engineer: Pursell, Gary **Report No:** WIR-010637 Address: 333 Burma Road **Date Inspected:** 05-Dec-2009

City: Oakland, CA 94607

OSM Arrival Time: 645 **Project Name:** SAS Superstructure **OSM Departure Time:** 1845 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

CWI Name: Chen Xi **CWI Present:** Yes No **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A N/A **Electrode to specification:** Yes No Weld Procedures Followed: Yes No N/A N/A **Qualified Welders:** Yes No **Verified Joint Fit-up:** Yes No N/A N/A Yes N/A **Approved Drawings:** Yes No **Approved WPS:** No Yes No N/A **Delayed / Cancelled:**

Component: Orthotropic Box Girder (OBG)

Summary of Items Observed:

34-0006

On this date Caltrans Office of Structural Material (OSM) Quality Assurance (QA) Inspector, D.Sukanthan was present during the time noted above for observations relative to the work being performed.

OBG # BAY 1

Bridge No:

This QA inspector received ZPMC Non Destructive Testing (NDT) notification 004800 to perform Magnetic Particle Testing (MT) of approximately 15% of the area previously tested and accepted by ZPMC Quality Control Personnel. This QA Inspector generated a Magnetic Particle Test report for this date. The member is identified as Counter Weight. The weld tested is identified as follows:

(CW002A-PP086-001,007)

(CW002-PP086-131,132,133)

(CW001-PP048-131,132,133)

(CW001A-PP048-001)

This QA Inspector randomly observed the following work in progress:

OBG # CROSS BEAM CB01

This crossbeam appears to be complete and has been loaded on the ship.

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OBG # CROSS BEAM CB02

This crossbeam appears to be complete and has been loaded on the ship.

OBG # CROSS BEAM CB03

This crossbeam appears to be complete and has been loaded on the ship.

OBG # CROSS BEAM CB04

This QA observed that no significant work was being performed on this crossbeam during the time QA was present.

OBG # CROSS BEAM CB05

This QA observed that no significant work was being performed on this crossbeam during the time QA was present.

OBG # CROSS BEAM CB06

This QA observed that no significant work was being performed on this crossbeam during the time QA was present.

OBG # CROSS BEAM CB07

This QA observed that no significant work was being performed on this crossbeam during the time QA was present.

OBG # CROSS BEAM CB08

This QA observed that no significant work was being performed on this crossbeam during the time QA was present.

OBG # CROSS BEAM CB09

This QA observed that no significant work was being performed on this crossbeam during the time QA was present.

OBG # CROSS BEAM CB10

This QA observed that no significant work was being performed on this crossbeam during the time QA was present.

OBG # CROSS BEAM CB11

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This QA observed that no significant work was being performed on this crossbeam during the time QA was present.

OBG # CROSS BEAM 12

This Quality Assurance inspector (QA) observed ZPMC welding personnel identify as 066179 perform Shield Metal Arc Welding Process (SMAW) repair welding on various weld joints. Quality Control Personnel (QC) identified as Zhao Cheng Jian was present to monitor the welding process. The welding parameters as measured using calibrated instruments appeared to be in general compliance with WPS-345-SMAW-3G (3F)-repair.

OBG # CROSS BEAM CB13

This QA observed ZPMC qualified welding personnel identified as 054459 perform Flux Cored Arc Welding Process (FCAW) welding on weld joint CB202G-039-071,072. ZPMC Quality Control Personnel (QC) identified as Mr. Sun Yan Fei was present to monitor the welding process. The Welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-T-2132-3.

This QA observed ZPMC qualified welding personnel identified as 215082 perform Flux Cored Arc Welding Process (FCAW) welding on weld joint CB202G-039-071,072. ZPMC Quality Control Personnel (QC) identified as Mr. Sun Yan Fei was present to monitor the welding process. The Welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-T-2132-3.

OBG # CROSS BEAM CB14

This QA observed that no significant work was being performed on this crossbeam during the time QA was present.

OBG # CROSS BEAM CB15

This QA observed that ZPMC is continuing to fit the bottom panel to Side panel. No other significant work was observed on this crossbeam during the time QA was present.

OBG # CROSS BEAM CB16

This QA observed that no significant work was being performed on this crossbeam during the time QA was present.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

Summary of Conversations:

As mention above

Comments

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This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang 150-00422372, who represents the Office of Structural Materials for your project.

Inspected By:	Sukanthan, Dhanasingh	Quality Assurance Inspector
Reviewed By:	Hall,Steven	QA Reviewer